(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 28 July 2005 (28.07.2005)

PCT

(10) International Publication Number WO 2005/068251 A1

(51) International Patent Classification:

B60N 2/48

(21) International Application Number:

PCT/SE2005/000048

(22) International Filing Date: 19 January 2005 (19.01.2005)

(25) Filing Language:

Swedish

(26) Publication Language:

English

(30) Priority Data: 0400087-3

19 January 2004 (19.01.2004)

(71) Applicant (for all designated States except US): KONGS-BERG AUTOMOTIVE AB [SE/SE]; Box 504, S-565 28 Mullsjö (SE).

(72) Inventors; and

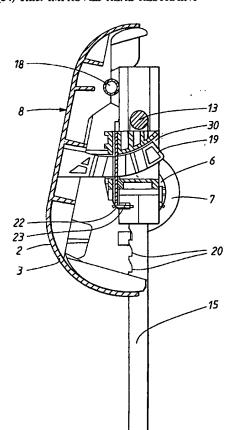
(75) Inventors/Applicants (for US only): HERMANSSON,

Bengt [SE/SE]; Oxelgatan 8, S-565 33 Mullsjö (SE). NILSSON, Therese [SE/SE]; Lärkgatan 2, S-565 31 Mullsjö (SE). JÄGENSTEDT, Urban [SE/SE]; Bunn Lindsro 5, S-563 93 Gränna (SE).

- (74) Agent: ALBIHNS GÖTEBORG AB; Box 142, S-401 22 Göteborg (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: IMPROVED HEAD RESTRAINT



(57) Abstract: A head restraint (1) for use in motor vehicles and comprising a support (5) for supporting the head restraint and fixing the head restraint to the backrest of a vehicle seat, the support (5) comprising a carrier (12) and at least one support leg (14, 15) coupled to the carrier (12), together with an adjusting arrangement (6) for adjusting the position of the head restraint in relation to an occupant of the motor vehicle. The carrier (12) is enclosed by a casing (2), which is rotatably connected to the support (5) along an axis of rotation (18) running essentially at right angles to the support leg (14, 15). The adjusting arrangement (6) comprises a locking plate (22), and an operating element (7) acting upon the locking plate (22) and designed to carry the locking plate (22) in a direction essentially parallel to the axis of rotation (22), the locking plate (22) having one locking tongue (28) designed to interact with an adjusting arm (19) firmly connected to the casing (2) and having locking elements (21) defining at least two separate locking positions on the adjusting arm (19), and one locking tongue (26, 27) designed to interact with locking elements (20) arranged on the support leg (14, 15), defining at least two separate locking positions on the support leg (14, 15).

WO 2005/068251 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.